

```

PPPPPPPPPPPP      AAAAAAAAAA      SSSSSSSSSSSS      CCCCCCCCCCCC      AAAAAAAAAA      LLL
PPPPPPPPPPPP      AAAAAAAAAA      SSSSSSSSSSSS      CCCCCCCCCCCC      AAAAAAAAAA      LLL
PPPPPPPPPPPP      AAAAAAAAAA      SSSSSSSSSSSS      CCCCCCCCCCCC      AAAAAAAAAA      LLL
PPP              PPP      AAA              AAA      SSS              CCC              AAA              AAA      LLL
PPP              PPP      AAA              AAA      SSS              CCC              AAA              AAA      LLL
PPP              PPP      AAA              AAA      SSS              CCC              AAA              AAA      LLL
PPP              PPP      AAA              AAA      SSS              CCC              AAA              AAA      LLL
PPP              PPP      AAA              AAA      SSS              CCC              AAA              AAA      LLL
PPP              PPP      AAA              AAA      SSS              CCC              AAA              AAA      LLL
PPPPPPPPPPPP      AAA              AAA              SSSSSSSSSS      CCC              AAA              AAA      LLL
PPPPPPPPPPPP      AAA              AAA              SSSSSSSSSS      CCC              AAA              AAA      LLL
PPPPPPPPPPPP      AAA              AAA              SSSSSSSSSS      CCC              AAA              AAA      LLL
PPP              AAAAAAAAAAAAAAAAAA      SSS              CCC              AAAAAAAAAAAAAAAAAA      LLL
PPP              AAAAAAAAAAAAAAAAAA      SSS              CCC              AAAAAAAAAAAAAAAAAA      LLL
PPP              AAAAAAAAAAAAAAAAAA      SSS              CCC              AAAAAAAAAAAAAAAAAA      LLL
PPP              AAA              AAA              SSS              CCC              AAA              AAA      LLL
PPP              AAA              AAA              SSS              CCC              AAA              AAA      LLL
PPP              AAA              AAA              SSS              CCC              AAA              AAA      LLL
PPP              AAA              AAA              SSSSSSSSSSSS      CCCCCCCCCCCC      AAA              AAA      LLLLLLLLLLLLLLLLLL
PPP              AAA              AAA              SSSSSSSSSSSS      CCCCCCCCCCCC      AAA              AAA      LLLLLLLLLLLLLLLLLL
PPP              AAA              AAA              SSSSSSSSSSSS      CCCCCCCCCCCC      AAA              AAA      LLLLLLLLLLLLLLLLLL

```

```
PPPPPPPP      AAAAAA      SSSSSSSS      IIIIII      000000      222222
PPPPPPPP      AAAAAA      SSSSSSSS      IIIIII      000000      222222
PP      PP      AA      AA      SS      II      00      00      22      22
PP      PP      AA      AA      SS      II      00      00      22      22
PP      PP      AA      AA      SS      II      00      00      22      22
PP      PP      AA      AA      SS      II      00      00      22      22
PPPPPPPP      AA      AA      SSSSSS      II      00      00      22      22
PPPPPPPP      AA      AA      SSSSSS      II      00      00      22      22
PP      AAAAAAAAAA      SS      II      00      00      22      22
PP      AAAAAAAAAA      SS      II      00      00      22      22
PP      AA      AA      SS      II      00      00      22      22
PP      AA      AA      SSSSSSSS      IIIIII      000000      2222222222
PP      AA      AA      SSSSSSSS      IIIIII      000000      2222222222
                                     ....
                                     ....
                                     ....
                                     ....
```

```
LL      IIIIII      SSSSSSSS
LL      IIIIII      SSSSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SSSSSS
LL      II      SSSSSS
LL      II      SS
LL      II      SS
LL      II      SS
LL      II      SS
LLLLLLLLLLLL      IIIIII      SSSSSSSS
LLLLLLLLLLLL      IIIIII      SSSSSSSS
```



```
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0000 3 :
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0000 21 :*
0000 22 :*
0000 23 :*****
0000 24 :
0000 25 :      .TITLE  PASSIO INPUT                ; PASCAL RMS linkage
0000 26 :      .ident  'V04-000'
0000 27 :
0000 28 :*****
0000 29 :*****
0000 30 :**
0000 31 :**          PASCAL RMS LINKAGE FOR VAX-11/780
0000 32 :**          =====
0000 33 :**
0000 34 :**
0000 35 :**          VERSION V1.0-1 -- OCTOBER 1979
0000 36 :**
0000 37 :**  DEVELOPED BY:  COMPUTER SCIENCE DEPARTMENT
0000 38 :**                UNIVERSITY OF WASHINGTON
0000 39 :**                SEATTLE, WA 98195
0000 40 :**
0000 41 :**  AUTHORS:      MARK BAILEY, JOHN CHAN, HELLMUT GOLDE
0000 42 :**
0000 43 :*****
0000 44 :*****
0000 45 :
0000 46 : Modified to allow input of 31 character scalar values.
0000 47 :      Paul Hohensee 24Jan80
0000 48 :
0000 49 : Modified to check for overflow of integers during a READ
0000 50 :      Susan Azibert 22May80
0000 51 :
0000 52 : Modified to check for overflow of real and double precision numbers
0000 53 :      during a READ
0000 54 :      Susan Azibert 22May80
0000 55 :
0000 56 : Modified to change the setting for PRN_CRLF to <LF> <text> <CR>
0000 57 :      Susan Azibert 16Oct80
```

```
0000 58 :  
0000 59 : Modified to force a READLN on read of a string if EOLN is true.  
0000 60 : Old behavior was to force a READLN only if both EOLN was true  
0000 61 : and last read was a string read. If the last read was not a string  
0000 62 : read, a null string (all blanks) was read and the file left  
0000 63 : positioned at EOLN.  
0000 64 : Paul Hohensee 19Jan81  
0000 65 :  
0000 66 : Correct PASS$READSCAL so it accepts capital Z.  
0000 67 : Paul Hohensee 20Feb81  
0000 68 :  
0000 69 : 7. Change PASS$CNV_IN_DEFG to an integer-valued function  
0000 70 :  
0000 71 : 8. 11-Aug-81 Paul Hohensee Change to general addressing of external routines  
0000 72 :  
0000 73 : *****  
0000 74 : *****  
0000 75 : **  
0000 76 : **  
0000 77 : ** SECTION 2 **  
0000 78 : **  
0000 79 : ** INPUT PROCEDURES **  
0000 80 : **  
0000 81 : **  
0000 82 : *****  
0000 83 : *****
```



0000 85 : For any file variable the following storage is assumed:

0000 86	:		
0000 87	:		
0000 88	:	FSB:	----- POINTER -----
0000 89	:		
0000 90	:		STATUS WORD -----
0000 91	:		
0000 92	:		LAST -----
0000 93	:		
0000 94	:		LINELIMIT -----
0000 95	:		
0000 96	:		LINECOUNT -----
0000 97	:		
0000 98	:		RECORD NUMBER -----
0000 99	:		
0000 100	:	RAB:	----- 44(HEX) BYTES -----
0000 101	:		
0000 102	:		
0000 103	:		
0000 104	:		
0000 105	:		
0000 106	:	FAB:	----- 50(HEX) BYTES -----
0000 107	:		
0000 108	:		
0000 109	:		
0000 110	:		
0000 111	:		
0000 112	:	NAM:	----- 38(HEX) BYTES -----
0000 113	:		
0000 114	:		
0000 115	:		
0000 116	:		
0000 117	:		
0000 118	:		
0000 119	:		
0000 120	:		

## MACRO OPTIONS

0000 121 : .DSABL GBL  
0000 122 : .ENABL FPT

; No undefined references  
; Rounded arithmetic

## External references

0000 123 :  
0000 124 :  
0000 125 :  
0000 126 : .EXTRN PASSREADOK  
0000 127 : .EXTRN PASSACTUALGET  
0000 128 : .EXTRN PASSSTATUSUPDAT  
0000 129 : .EXTRN PASSBLANK R3  
0000 130 : .EXTRN PASSIOERROR

0000 131 :  
0000 132 : .EXTRN FOR\$CNV\_IN\_DEFG  
0000 133 : .EXTRN OT\$SCVT\_TI\_L

## Provide definitions of system values

0000 134 :  
0000 135 :  
0000 136 :  
0000 137 : \$DSCDEF  
0000 138 : \$FABDEF  
0000 139 : \$RABDEF

; String descriptor definitions

## PASCAL compiler constants

NOTE: The NAM block is allocated  
for the PASCAL logical files  
'INPUT' and 'OUTPUT' only.

```
0000 142 : NOTE: The constants below with the names 'PASSC_XXXXX' are
0000 143 : used in the PASCAL compiler with the names 'XXXXX'. If the
0000 144 : values in the compiler are altered then the values below
0000 145 : must be altered accordingly.
0000 146 :
0000 147 :
0000 148 : PASSC_DFLTRECSI = 257; ; default buffer size
0000 149 : PASSC_NIL = 0 ; NIL pointer
0000 150 : PASSC_TRUE = 1 ; TRUE
0000 151 : PASSC_FALSE = 0 ; FALSE
0000 152 : PASSC_NOCARR = 0 ; no carriage control
0000 153 : PASSC_CARRIAGE = 1 ; FORTRAN carriage control
0000 154 : PASSC_LIST = 2 ; LIST carriage control
0000 155 : PASSC_PRN = 3 ; PRN carriage control
0000 156 :
0000 157 : PRN carriage control constants
0000 158 :
0000 159 : PRN_CRLF = ^X8D01 ; PRN carriage control constant
0000 160 : ; for <LF> <text> <CR>
0000 161 : PRN_NULL = ^X0000 ; PRN carriage control constant
0000 162 : ; for no carriage control
0000 163 :
0000 164 : File status block constants
0000 165 :
00000018 0000 166 : FSB$C_BLN = ^X18 ; FSB block length
0000 167 : FSB$V_OPEN = 5
0000 168 : FSB$V_EOF = 1
00000002 0000 169 : FSB$V_EOLN = 2
0000 170 : FSB$V_GET = 3
0000 171 : FSB$V_TXT = 4 ; textfile flag
0000 172 : FSB$V_RDLN = 0 ; last access READLN
0000 173 : FSB$V_DIR = 6 ; direct access flag
0000 174 : FSB$V_PUT = 7
0000 175 : FSB$V_INT = 8 ; internal flag
0000 176 : FSB$V_PRMT = 9 ; prompt flag
0000 177 : FSB$V_OUTPUT = 10 ; OUTPUT file flag
0000000B 0000 178 : FSB$V_ACTIN = 11 ; actual input flag
0000 179 : FSB$V_DELZ = 30 ; delete file if empty
0000 180 : FSB$V_INC = 31 ; included file flag
0000 181 : FSB$B_CC = 6 ; carriage control byte offset
0000 182 : FSB$M_OPEN = ^X0020
0000 183 : FSB$M_EOF = ^X0002
0000 184 : FSB$M_EOLN = ^X0004
0000 185 : FSB$M_GET = ^X0008
0000 186 : FSB$M_PRMT = ^X0200
0000 187 : FSB$M_PUT = ^X00000080
0000 188 : FSB$M_TXT = ^X0010
0000 189 : FSB$M_RDLN = ^X0001
0000 190 : FSB$M_DIR = ^X00000040
0000 191 : FSB$M_INT = ^X00000100
0000 192 : FSB$M_OUTPUT = ^X0400
0000 193 : FSB$M_ACTIN = ^X0800
0000 194 : FSB$M_DELZ = ^X40000000
0000 195 : FSB$M_INC = ^X80000000
0000 196 : FSB$L_CNT = 16 ; line count (textfiles)
0000 197 : FSB$L_INC = 20 ; %INCLUDE block address
0000 198 : FSB$L_LIM = 12 ; linelimit
```



```
00000008 0000 199      FSB$L_LST = 8      ; last word offset
           0000 200      FSB$L_PFSB = 20    ; related file FSB for prompting
           0000 201      ; for INPUT, has address of OUTPUT FSB
           0000 202      ; for OUTPUT, has address of INPUT FSB
           0000 203      ; (shares storage with include address
           0000 204      ; and direct access record
           0000 205      ; buffer address
           0000 206      ; record buffer address for
           0000 207      ; direct access (shares storage
           0000 208      ; with include address and related
           0000 209      ; file FSB)
00000004 0000 210      FSB$L_STA = 4        ; status word offset
           0000 211      ;
           0000 212      ; Character constants
           0000 213      ;
           0000 214      ; TAB = ^X09
00000020 0000 215      ; SPACE = ^X20
00000024 0000 216      ; DOLLAR = ^X24
           0000 217      ; FORMFEED = ^XC
           0000 218      ; STAR = ^X2A
0000002B 0000 219      ; PLUS = ^X2B
0000002D 0000 220      ; MINUS = ^X2D
0000002E 0000 221      ; POINT = ^X2E
00000030 0000 222      ; ZERO = ^X30
           0000 223      ; ONE = ^X31
00000038 0000 224      ; EIGHT = ^X38
00000039 0000 225      ; NINE = ^X39
00000041 0000 226      ; AA = ^X41
00000044 0000 227      ; DD = ^X44
00000045 0000 228      ; EE = ^X45
0000005A 0000 229      ; ZZ = ^X5A
0000005F 0000 230      ; UNDERSCORE = ^X5F
00000061 0000 231      ; AA_SMALL = ^X61
0000007A 0000 232      ; ZZ_SMALL = ^X7A
           0000 233      ;
00000000 0000 234      ; MAX10 = 214748364
80000000 0000 235      ; MAXNEG = ^X80000000
           0000 236      ;
           0000 237      ; .PSECT _PASS$CODE,      PIC,EXE,SHR,NOWRT
           0000 238      ;
           0000 239      ; *****
           0000 240      ; *
           0000 241      ; *   PASS$GETBIN   *
           0000 242      ; *
           0000 243      ; *****
           0000 244      ;
           0000 245      ; Gets the next record from a (binary) file
           0000 246      ;
           0000 247      ; Argument offsets
           0000 248      ;
           0000 249      ; AP
00000004 0000 250      ; FSB_DISP = 04      ; number of arguments (1)
           0000 251      ; FSB address
           0000 252      ;
           0000 253      ; .ENTRY PASS$GETBIN,^M<R7>
           0002 254      ; ADDL3 FSB_DISP(AP),#FSB$C_BLN,R7 ; R7 = address of RAB
           0007 255      ; CALLG (APT,G^PASS$READOK
           000E 255      ; MOV B #RAB$C_SEQ,RAB$B_RAC(R7); make sure sequential
```

57 18 04 AC C1 0002 253  
00000000\*GF 6C FA 0007 254  
1E A7 00 90 000E 255

```
00000000'GF 6C FA 0012 256 CALLG (AP),G^PASSACTUALGET ; get for call to GET
04 0019 257 RET
001A 258 :
001A 259 :
0000001A 260 .PSECT _PASS$CODE, PIC,EXE,SHR,NOWRT
001A 261 :
001A 262 :
001A 263 :
001A 264 :
001A 265 :
001A 266 :
001A 267 :
001A 268 :
001A 269 :
001A 270 :
001A 271 :
001A 272 :
001A 273 :
00000004 001A 274 :
001A 275 :
0040 001A 276 :
00000000'GF 6C FA 001C 277 .ENTRY PASS$GETTXT,^M<R6>
56 04 AC D0 0023 278 CALLG (AP),G^PASS$READOK
66 D6 0027 279 MOVL FSB_DISP(AP),R6 ; R6 = address of FSB
00000000'GF 6C FA 0029 280 INCL (R6)
04 0030 281 CALLG (AP),G^PASS$STATUSUPDAT ; update status word
0031 282 RET
0031 283 :
00000031 284 .PSECT _PASS$CODE, PIC,EXE,SHR,NOWRT
0031 285 :
0031 286 :
0031 287 :
0031 288 :
0031 289 :
0031 290 :
0031 291 :
0031 292 :
0031 293 :
0031 294 :
0031 295 :
0031 296 :
0031 297 :
00000004 0031 298 :
0031 299 :
0040 0031 300 :
56 04 AC D0 0033 301 .ENTRY PASS$READLN,^M<R6>
00000000'GF 6C FA 0037 302 MOVL FSB_DISP(AP),R6 ; R6 = address of FSB
66 08 A6 D0 003E 303 CALLG (AP),G^PASS$READOK
66 D6 0042 304 MOVL FSB$L_LST(R6),(R6)
00000000'GF 6C FA 0044 305 INCL (R6) ; set pointer to LAST + 1
04 004B 306 CALLG (AP),G^PASS$STATUSUPDAT
004C 307 RET
004C 308 :
0000004C 309 .PSECT _PASS$CODE, PIC,EXE,SHR,NOWRT
004C 310 :
004C 311 :
004C 312 :
* *
```



```

004C 313 : * PASS$READCHAR *
004C 314 : *
004C 315 : *****
004C 316 :
004C 317 : Argument offsets
004C 318 :
004C 319 : AP ; number of arguments (1)
00000004 004C 320 : FSB_DISP = 04 ; FSB address
00000008 004C 321 : VAR_DISP = 08 ; variable address
004C 322 :
0040 004C 323 : .ENTRY PASS$READCHAR,^M<R6>
56 04 AC D0 004E 324 : MOVL FSB_DISP(AP),R6 ; R6 = address of FSB
00000000'GF 56 DD 0052 325 : PUSHL R6
01 FB 0054 326 : CALLS #1,G^PASS$READOK
005B 327 :
005B 328 : Store the character and increment pointer
005B 329 :
08 BC 00 B6 90 005B 330 : MOVB @ (R6),@VAR_DISP(AP)
66 D6 0060 331 : INCL (R6)
56 DD 0062 332 : PUSHL R6
00000000'GF 01 FB 0064 333 : CALLS #1,G^PASS$STATUSUPDAT
04 006B 334 : RET
006C 335 :
006C 336 :
0000 006C 337 : .PSECT _PASS$CODE, PIC,EXE,SHR,NOWRT
006C 338 :
006C 339 : *****
006C 340 : *
006C 341 : * PASS$READSTR *
006C 342 : *
006C 343 : *****
006C 344 :
006C 345 : Argument offsets
006C 346 :
006C 347 : AP ; number of arguments (3)
00000004 006C 348 : FSB_DISP = 04 ; FSB address
00000008 006C 349 : STR_DISP = 08 ; string address
0000000C 006C 350 : LEN_DISP = 12 ; string length (by value)
006C 351 :
007C 006C 352 : .ENTRY PASS$READSTR,^M<R2,R3,R4,R5,R6>
56 04 AC D0 006E 353 : MOVL FSB_DISP(AP),R6 ; R6 = address of FSB
09 04 A6 02 E1 0072 354 : BBC #FSB$V_EOLN,FSB$L_STA(R6),100$; if EOLN = TRUE,
56 DD 0077 355 : PUSHL R6 ; go to next line
00000031'GF 01 FB 0079 356 : CALLS #1,G^PASS$READLN
100$: 0080 357 :
56 DD 0080 358 : PUSHL R6
00000000'GF 01 FB 0082 359 : CALLS #1,G^PASS$READOK
50 08 A6 66 C3 0089 360 : SUBL3 (R6),FSB$L_LST(R6),R0 ; R0 = remaining length
OC AC 20 00 B6 50 2C 008E 361 : MOVC5 R0,@ (R6),#SPACE,LEN_DISP(AP),@STR_DISP(AP)
08 BC 0095 362 :
66 51 D0 0097 363 : MOVL R1,(R6) ; store new pointer
56 DD 009A 364 : PUSHL R6
00000000'GF 01 FB 009C 365 : CALLS #1,G^PASS$STATUSUPDAT
04 00A3 366 : RET
00A4 367 :
000000A4 368 : .PSECT _PASS$CODE, PIC,EXE,SHR,NOWRT

```



	00A4	369	:	
	00A4	370	:	*****
	00A4	371	:	*
	00A4	372	:	*    PASS\$READSCAL    *
	00A4	373	:	*
	00A4	374	:	*****
	00A4	375	:	
	00A4	376	:	Reads a scalar value from the character file. Lower case letters are
	00A4	377	:	tranlated into upper case letters. If the name can not be found a
	00A4	378	:	runtime error occurs.
	00A4	379	:	
	00A4	380	:	Argument offsets
	00A4	381	:	
	00A4	382	:	AP
	00000004	00A4	383	:FSB_DISP = 04
	00000008	00A4	384	:SCA_DISP = 08
	0000000C	00A4	385	:NAM_DISP = 12
	00000010	00A4	386	:MAX_DISP = 16
		00A4	387	
		00A4	388	
		00A4	389	
		00A4	390	: Constants
		00A4	391	
	0000001F	00A4	392	: MAXNAM = 31
		00A4	393	
		00A4	394	
	00000020	00A4	395	: NAMELEN = MAXNAM + 1
		00A4	396	
		00A4	397	: The scalar translation table
		00A4	398	
		00A4	399	: SCALTRANSTABLE:
00'00'00'00'00'00'00'00'00'00'00'00'00'	00A4	400	: .BYTE	0[ ^X23 - ^X0 + ^X1]
00'00'00'00'00'00'00'00'00'00'00'00'00'	00B0			
00'00'00'00'00'00'00'00'00'00'00'00'00'	00BC			
	24	00C8	401	: .BYTE DOLLAR
00'00'00'00'00'00'00'00'00'00'00'00'00'	00C9	402	: .BYTE	0[ ^X2F - ^X25 + ^X1]
39 38 37 36 35 34 33 32 31 30	00D4	403	: .BYTE	^X30, ^X31, ^X32, ^X33, ^X34, ^X35, -
	00DE	404		^X36, ^X37, ^X38, ^X39
00'00'00'00'00'00'00'00'00'00'00'00'00'	00DE	405	: .BYTE	0[ ^X40 - ^X3A + ^X1]
4C 4B 4A 49 48 47 46 45 44 43 42 41	00E5	406	: .BYTE	^X41, ^X42, ^X43, ^X44, ^X45, -
58 57 56 55 54 53 52 51 50 4F 4E 4D	00F1			
5A 59	00FD			
	00FF	407		^X46, ^X47, ^X48, ^X49, ^X4A, -
	00FF	408		^X4B, ^X4C, ^X4D, ^X4E, ^X4F, -
	00FF	409		^X50, ^X51, ^X52, ^X53, ^X54, -
	00FF	410		^X55, ^X56, ^X57, ^X58, ^X59, -
	00FF	411		^X5A
00 5F 00 00 00 00	00FF	412	: .BYTE	0,0,0,0,UNDERSCORE,0
4C 4B 4A 49 48 47 46 45 44 43 42 41	0105	413	: .BYTE	^X41, ^X42, ^X43, ^X44, ^X45, -
58 57 56 55 54 53 52 51 50 4F 4E 4D	0111			
5A 59	011D			
	011F	414		^X46, ^X47, ^X48, ^X49, ^X4A, -
	011F	415		^X4B, ^X4C, ^X4D, ^X4E, ^X4F, -
	011F	416		^X50, ^X51, ^X52, ^X53, ^X54, -
	011F	417		^X55, ^X56, ^X57, ^X58, ^X59, -
	011F	418		^X5A
00'00'00'00'00'00'	011F	419	: .BYTE	0[ ^X7F - ^X7B + ^X1]



Address	Hex	Assembly	Comments
00000000	0124	.BYTE 0C^X7F]	
00000000	0130		
00000000	013C		
00000000	0148		
00000000	0154		
00000000	0160		
00000000	016C		
00000000	0178		
00000000	0184		
00000000	0190		
00000000	019C		
00000000	01A3		
56 04 AC D0	01A3	.ENTRY PASS\$READSCAL,^M<R2,R3,R4,R5,R6,R7,R8>	
52 56 D0	01A5	MOVL FSB_DISP(AP),R6	; R6 = address of FSB
00000000 GF 16	01A9	MOVL R6,R2	; for PASS\$BLANK_R3
	01AC	JSB G^PASS\$BLANK_R3	; skip leading blanks
	01B2		; returns next address in R1
	01B2		
	01B2		
41 8F 61 91	01B2	421	
5A 8F 61 91	01B6	422	
7A 8F 61 91	01B8	423	
61 8F 61 91	01BC	424	
	01BE	425	
	01C2	426	
	01C4	427	
	01C8	428	
	01CA	429	
	01CA	430	
	01CA	431	
	01CA	432	
50 08 A6 51 C3	01CA	433	
5E 50 D6	01CF	434	
5E 50 C2	01D1	435	
50 FEC9 CF 00 61 50 2F	01D4	436	
6E	01D4	437	
	01DC	438	
	01DD	439	
	01DD	440	
	01DD	441	
66 51 D0	01DD	442	
56 DD	01E0	443	
00000000 GF 01 FB	01E2	444	
	01E9	445	
	01E9	446	
	01E9	447	
55 5E C2	01E9	448	
1F 55 D1	01EC	449	
55 03 15	01EF	450	
	01F1	451	
	01F4	452	
54 10 AC 20 C5	01F4	453	
58 D4	01F9	454	
	01FB	455	
6E 55 20 0C BC44 20 2D	01FB	456	
15 13	0203	457	
		458	
		459	
		460	
		461	
		462	
		463	
		464	
		465	

```

52 B5 0205 466 TSTW R2 ; did we match full input string?
05 12 0207 467 BNEQ 125$
58 D6 0209 468 INCL R8 ; R8 := 1 if first initial substring match
57 54 D0 020B 469 MOVL R4,R7 ; preserve offset
54 20 C2 020E 470 125$:
E8 18 0211 471 SUBL2 #NAMELEN,R4 ; R4 = offset of next string to try
58 D7 0213 472 BGEQ 120$
1B 12 0215 473 DECL R8 ; no exact match, was there a unique initial
54 57 D0 0217 474 BNEQ 900$ ; NEQ: no, error
021A 475 MOVL R7,R4 ; yes, set up table offset
021A 476
021A 477 : Store value and exit
021A 478
021A 479 199$:
54 20 C6 021A 480 DIVL2 #NAMELEN,R4 ; convert offset to index
00000100 8F 10 AC D1 021D 481 CMPL MAX_DISP(AP),#256 ; store byte or word?
06 14 0225 482 BGTR 201$
08 BC 54 90 0227 483 MOVB R4,@SCA_DISP(AP) ; store byte
04 11 022B 484 BRB 202$
08 BC 54 B0 022D 485 201$: MOVW R4,@SCA_DISP(AP) ; store word
04 04 0231 486 202$: RET
0232 487
0232 488 : No match found, input conversion error
0232 489
0232 490
0232 491
0232 492 900$:
7E 8394 8F 3C 0232 493 MOVZWL #^X8394,-(SP)
7E 0090 C6 9A 0237 494 MOVZBL <FSB$C_BLN+RAB$C_BLN+FAB$B_FNS>(R6),-(SP)
0088 C6 DD 023C 495 PUSHL <FSB$C_BLN+RAB$C_BLN+FAB$L_FNA>(R6)
00000000 GF 03 FB 0240 496 CALLS #3,G^PAS$IOERROR
0247 497
0247 498
0000 0247 499 .PSECT _PASS$CODE, PIC,EXE,SHR,NOWRT
0247 500
0247 501 *****
0247 502 *
0247 503 * PASS$READINT *
0247 504 *
0247 505 *****
0247 506
0247 507 : Argument offsets
0247 508
0247 509
00000004 0247 510 AP ; number of arguments
00000008 0247 511 FSB_DISP = 04 ; FSB address
FF FFFF F4 0247 512 VAR_DISP = 08 ; variable address
FF FFFF F8 0247 513 : Descriptor offsets
FF FFFF FA 0247 514 RESULT = -12 ; offset of result
FF FFFF FC 0247 515 LENGTH = -8 ; offset of length
005C 0247 516 CLASS = -6 ; offset of class and type
56 04 AC D0 0249 517 ADDR = -4 ; offset of address
00000000 GF 16 0250 518 .ENTRY PASS$READINT,^M<R2,R3,R4,R6>
0256 519 MOVL FSB_DISP(AP),R6 ; R6 = address of FSB
0256 520 MOVL R6,R2 ; R2 needed for PASS$BLANK_R3
0256 521 JSB G^PAS$BLANK_R3 ; skip leading blanks
0256 522 ; returns R1 as address of byte
```



```

50 D4 0256 523 CLRL R0 ; set counter
52 D4 0258 524 CLRL R2 ; set sum register
54 D4 025A 525 CLRL R4 ; clear extract register
53 01 D0 025C 526 MOVL #1,R3 ; set sign flag
2B 51 DD 025F 527 PUSHL R1 ; store address of string in descriptor
06 91 0261 528 CMPB (R1),#PLUS ; plus?
50 D6 0264 529 BNEQU 100$
51 D6 0266 530 INCL R0
10 11 0268 531 INCL R1
026A 532 BRB 110$
026C 533 100$: ; minus?
2D 61 91 026C 534 CMPB (R1),#MINUS
0B 12 026F 535 BNEQU 110$
53 FFFFFFFF 8F D0 0271 536 MOVL #-1,R3 ; set sign flag
50 D6 0278 537 INCL R0
51 D6 027A 538 INCL R1
027C 539 110$: ; process integer
54 61 30 83 027C 540 SUBB3 #ZERO,(R1),R4 ; R4 = integer value of digit
30 19 0280 541 BLSS 120$
39 61 91 0282 542 CMPB (R1),#NINE
2B 14 0285 543 BGTR 120$ ; branch if not digit
OCCCCCCC 8F 52 D1 0287 544 CMPL R2,#MAX10 ; check for out of range
16 19 028E 545 BLSS 111$
4D 14 0290 546 BGTR 900$
38 61 91 0292 547 CMPB (R1),#EIGHT
48 14 0295 548 BGTR 900$
0D 19 0297 549 BLSS 111$
53 D5 0299 550 TSTL R3 ; check for largest negative
42 18 029B 551 BGEQ 900$
52 80000000 8F D0 029D 552 MOVL #MAXNEG,R2
06 11 02A4 553 BRB 112$
02A6 554 111$:
52 0A C4 02A6 555 MULL2 #10,R2
52 54 C0 02A9 556 ADDL2 R4,R2 ; R2 = new sum
02AC 557 112$:
50 D6 02AC 558 INCL R0 ; increment counter
51 D6 02AE 559 INCL R1 ; increment address
CA 11 02B0 560 BRB 110$ ; loop if more digits
02B2 561 120$: ; read until not digit
50 D5 02B2 562 TSTL R0 ; test for no digits read
29 13 02B4 563 BEQL 900$ ; conversion error
0A 50 D1 02B6 564 CMPL R0,#10 ; check for excess digits
24 14 02B9 565 BGTR 900$
50 DD 02BB 566 PUSHL R0 ; store length of descriptor
7E D4 02BD 567 CLRL -(SP) ; clear a longword for the result
5E DD 02BF 568 PUSHL SP ; pass the address to store the result
F8 AD 9F 02C1 569 PUSHAB LENGTH(FP) ; pass the address of the descriptor
00000000'GF 11 02 02C4 570 CALLS #2,G^OTS$CVT_TI_L ; call conversion routine
0B BC 8E D0 02CB 571 BLBC R0,900$ ; if error, output message
66 51 D0 02CE 572 MOVL (SP)+,@VAR_DISP(AP) ; store integer
56 DD 02D2 573 MOVL R1,(R6) ; restore pointer address
00000000'GF 01 FB 02D7 574 PUSHL R6
04 02DE 575 CALLS #1,G^PASS$STATUSUPDAT ; update status block
02DF 576 RET
02DF 577 ;
02DF 578 ; No match found, input conversion error
02DF 579 ;
```



```

7E 8394 8F 3C 02DF 580 900$: MOVZWL #^X8394,-(SP)
7E 0090 C6 9A 02E4 581 MOVZBL <FSB$C_BLN+RAB$C_BLN+FAB$B_FNS>(R6),-(SP)
0088 C6 DD 02E9 582 PUSHL <FSB$C_BLN+RAB$C_BLN+FAB$L_FNA>(R6)
00000000'GF 03 FB 02ED 583 CALLS #3,G^PASSIOERROR
02F4 584
02F4 585
000002F4 586
02F4 587 .PSECT _PASSCODE, PIC,EXE,SHR,NOWRT
02F4 588
02F4 589 *****
02F4 590 *
02F4 591 * PASS$READREAL *
02F4 592 *
02F4 593 *****
02F4 594
02F4 595 Argument offsets
02F4 596
02F4 597 AP ; number of arguments (2)
00000004 02F4 598 FSB_DISP = 04 ; FSB address
00000008 02F4 599 VAR_DISP = 08 ; variable address
02F4 600
001C 02F4 601 .ENTRY PASS$READREAL,^M<R2,R3,R4>
52 04 AC D0 02F6 602 MOVL FSB_DISP(AP),R2 ; R2 = address of FSB
00000000'GF 16 02FA 603 JSB G^PASS$BLANK_R3 ; skip leading blanks
50 51 D0 0300 604 ; returns located byte in R1
2B 61 91 0303 605 MOVL R1,R0 ; save starting address
04 12 0306 606 ; check for plus
51 D6 0308 607 CMPB (R1),#PLUS
07 11 030A 608 BNEQ 210$
030C 609 INCL R1
030C 610 BRB 220$
2D 61 91 030C 611 210$: CMPB (R1),#MINUS
02 12 030F 612 BNEQ 220$
51 D6 0311 613 INCL R1
0313 614 220$: ; count integer part
30 61 91 0313 615 CMPB (R1),#ZERO
09 19 0316 616 BLSS 230$
39 61 91 0318 617 CMPB (R1),#NINE
04 14 031B 618 BGTR 230$
51 D6 031D 619 INCL R1
F2 11 031F 620 BRB 220$
2E 61 91 0321 621 230$: ; loop
10 12 0324 622 CMPB (R1),#POINT ; count decimal point
51 D6 0326 623 BNEQ 250$
0328 624 INCL R1
30 61 91 0328 625 240$: ; count decimal part
09 19 032B 626 BLSS 250$
39 61 91 032D 627 CMPB (R1),#NINE
04 14 0330 628 BGTR 250$
51 D6 0332 629 INCL R1
F2 11 0334 630 BRB 240$
45 8F 61 91 0336 631 250$: ; loop
06 13 033A 632 CMPB (R1),#EE ; check for 'E'
65 8F 61 91 033C 633 beql 251$
033C 634 cmpb (r1),#^a'e'
033C 635
033C 636

```



```
2A 12 0340 637 BNEQ 280$ ; done if no exponent
      0342 638 251$: INCL R1 ; found exponent
51 D6 0342 639
      0344 640 ; check sign
2B 61 91 0344 641 CMPB (R1),#PLUS
      04 12 0347 642 BNEQ 260$
      51 D6 0349 643 INCL R1
      07 11 034B 644 BRB 270$
      034D 645 260$: ; check minus if not plus
2D 61 91 034D 646 CMPB (R1),#MINUS
      02 12 0350 647 BNEQ 270$
      51 D6 0352 648 INCL R1
      0354 649 270$: ; two digit exponent
30 61 91 0354 650 CMPB (R1),#ZERO
      13 19 0357 651 BLSS 280$
39 61 91 0359 652 CMPB (R1),#NINE
      0E 14 035C 653 BGTR 280$
      51 D6 035E 654 INCL R1
30 61 91 0360 655 CMPB (R1),#ZERO
      07 19 0363 656 BLSS 280$
39 61 91 0365 657 CMPB (R1),#NINE
      02 14 0368 658 BGTR 280$
      51 D6 036A 659 INCL R1
53 51 50 C3 036C 660 280$: ; finished with number
      04 BC 51 D0 0370 661 SUBL3 R0,R1,R3 ; R3 = length
      53 D5 0374 662 MOVL R1,@FSB_DISP(AP) ; update file pointer
      25 13 0376 663 TSTL R3
      0378 664 BEQL 900$ ; branch if conversion error
      0378 665 ;
      0378 666 ; Make room for value on stack and convert input
      0378 667 ;
5E 08 C2 0378 668 SUBL2 #8,SP
54 5E D0 037B 669 MOVL SP,R4 ; R4 = address of double result
      53 DD 037E 670 PUSHL R3 ; length
      54 DD 0380 671 PUSHL R4 ; value address
      50 DD 0382 672 PUSHL R0 ; string address
00000473'GF 03 FB 0384 673 CALLS #3,G^PASS$CNV_IN_DEFG
      0F 50 E9 038B 674 BLBC R0,900$ ; branch if error
      08 BC 64 76 038E 675 CVTDF (R4),@VAR_DISP(AP) ; store read number
      04 AC DD 0392 676 PUSHL FSB_DISP(AP)
00000000'GF 01 FB 0395 677 CALLS #1,G^PASS$STATUSUPDAT ; update status block
      04 039C 678 RET
      039D 679 ;
      039D 680 ; Input conversion error
      039D 681 ;
      039D 682 900$:
7E 8394 8F 3C 039D 683 MOVZWL #^X8394,-(SP)
7E 0090 C2 9A 03A2 684 MOVZBL <FSB$C_BLN+RAB$C_BLN+FAB$B_FNS>(R2),-(SP)
      0088 C2 DD 03A7 685 PUSHL <FSB$C_BLN+RAB$C_BLN+FAB$L_FNA>(R2)
00000000'GF 03 FB 03AB 686 CALLS #3,G^PASS$IOERROR
      03B2 687 ;
      03B2 688 ;
0000 03B2 689 .PSECT _PASS$CODE, PIC,EXE,SHR,NOWRT
      03B2 690 ;
      03B2 691 ;
      03B2 692 ;
      03B2 693 ; *****
      * PASS$READDOUB *
```



```

03B2 694 : *
03B2 695 : *****
03B2 696 :
03B2 697 : Argument offsets
03B2 698 :
03B2 699 : AP ; number of arguments (2)
00000004 03B2 700 FSB_DISP = 04 ; FSB address
00000008 03B2 701 VAR_DISP = 08 ; variable address
03B2 702 :
000C 03B2 703 .ENTRY PASS$READDOUB,^M<R2,R3>
52 04 AC D0 03B4 704 MOVL FSB_DISP(AP),R2 ; R2 = address of FSB
00000000 GF 16 03B8 705 JSB G^PASS$BLANK_R3 ; skip leading blanks
50 51 D0 03BE 706 ; R1 = located address
03BE 707 MOVL R1,R0 ; save starting address
03C1 708 :
03C1 709 : Check for plus
03C1 710 :
2B 61 91 03C1 711 CMPB (R1),#PLUS
04 12 03C4 712 BNEQ 210$
51 D6 03C6 713 INCL R1
07 11 03C8 714 BRB 220$
210$: 03CA 715 ; check for minus if not plus
2D 61 91 03CA 716 CMPB (R1),#MINUS
02 12 03CD 717 BNEQ 220$
51 D6 03CF 718 INCL R1
220$: 03D1 719 ; count integer part
30 61 91 03D1 720 CMPB (R1),#ZERO
09 19 03D4 721 BLSS 230$
39 61 91 03D6 722 CMPB (R1),#NINE
04 14 03D9 723 BGTR 230$
51 D6 03DB 724 INCL R1
F2 11 03DD 725 BRB 220$
230$: 03DF 726 ; loop
2E 61 91 03DF 727 CMPB (R1),#POINT
10 12 03E2 728 BNEQ 250$
51 D6 03E4 729 INCL R1
240$: 03E6 730 ; count decimal part
30 61 91 03E6 731 CMPB (R1),#ZERO
09 19 03E9 732 BLSS 250$
39 61 91 03EB 733 CMPB (R1),#NINE
04 14 03EE 734 BGTR 250$
51 D6 03F0 735 INCL R1
F2 11 03F2 736 BRB 240$
250$: 03F4 737 ; loop
44 8F 61 91 03F4 738 CMPB (R1),#DD
12 13 03F8 739 BEQL 251$
64 8F 61 91 03FA 740 cmpb (r1),#^a'd'
0C 13 03FE 741 beql 251$
45 8F 61 91 0400 742 CMPB (R1),#EE
06 13 0404 743 beql 251$
65 8F 61 91 0406 744 cmpb (r1),#^a'e'
2A 12 040A 745 BNEQ 280$
251$: 040C 746 ; done if no exponent
51 D6 040C 747 INCL R1 ; found exponent
040E 748 ; check sign
2B 61 91 040E 749 CMPB (R1),#PLUS
04 12 0411 750 BNEQ 260$

```



```

      51 D6 0413 751 INCL R1
      07 11 0415 752 BRB 270$
2D    61 01 0417 753 260$: ; check minus if not plus
      02 12 041A 754 CMPB (R1),#MINUS
      51 D5 041C 755 BNEQ 270$
      01 041E 756 INCL R1
30    61 91 041E 757 270$: ; two digit exponent
      13 19 0421 758 CMPB (R1),#ZERO
39    61 91 0423 759 BLSS 280$
      0E 14 0426 760 CMPB (R1),#NINE
      51 D6 0428 761 BGTR 280$
30    61 91 042A 762 INCL R1
      07 19 042D 763 CMPB (R1),#ZERO
39    61 91 042F 764 BLSS 280$
      02 14 0432 765 CMPB (R1),#NINE
      51 D6 0434 766 BGTR 280$
53    51 50 C3 0436 767 INCL R1
      04 BC 51 D0 043A 768 280$: ; finished with number
      53 D5 043E 769 SUBL3 R0,R1,R3 ; R3 = length
      1C 13 0440 770 MOVL R1,@FSB_DISP(AP) ; update file pointer
      0442 771 TSTL R3
      0442 772 BEQL 900$ ; branch if conversion error
      0442 773 ;
      0442 774 ; Convert input
      0442 775 ;
      08 53 DD 0442 776 PUSHL R3 ; length
      AC DD 0444 777 PUSHL VAR_DISP(AP) ; variable address
      50 DD 0447 778 PUSHL R0 ; string address
00000473'GF 03 FB 0449 779 CALLS #3,G^PASS$CNV_IN_DEFG
      08 50 E9 0450 780 BLBC R0,900$ ; branch if error
      04 AC DD 0453 781 PUSHL FSB_DISP(AP)
00000000'GF 01 FB 0456 782 CALLS #1,G^PASS$STATUSUPDAT ; update status block
      04 045D 783 RET
      045E 784 ;
      045E 785 ; Input conversion error
      045E 786 ;
      045E 787 ;
      7E 8394 8F 3C 045E 788 900$: MOVZWL #^X8394,-(SP)
      7E 0090 C2 9A 0463 789 MOVZBL <FSB$C_BLN+RAB$C_BLN+FAB$B_FNS>(R2),-(SP)
      0088 C2 DD 0468 790 PUSHL <FSB$C_BLN+RAB$C_BLN+FAB$L_FNA>(R2)
00000000'GF 03 FB 046C 791 CALLS #3,G^PASS$IOERROR
      0473 792 ;
      0473 793 ;
00000473 0473 794 .PSECT _PASS$CODE, PIC,EXE,SHR,NOWRT
      0473 795 ;
      0473 796 ;
      0473 797 ; *****
      0473 798 ; * PASS$CNV_IN_DEFG *
      0473 799 ; *****
      0473 800 ;
      0473 801 ;
      0473 802 ; Converts a character string representing a real or double precision
      0473 803 ; value into a double precision value
      0473 804 ;
      0473 805 ; Argument offsets
      0473 806 ;
      0473 807 ; AP ; number of arguments (3)
```



```

00000004 0473 808      BUF_DISP = 04      ; buffer address
00000008 0473 809      VAR_DISP = 08      ; variable address (of quadword)
0000000C 0473 810      LEN_DISP = 12     ; string length (by value)
          0473 811      ;
          0473 812      ; .ENTRY PASS$CNV_IN_DEFG,^M<>
          0475 813      ;
          0475 814      ; Make room for descriptor on stack
          0475 815      ;
          0475 816      ;
04 A1 5E 08 C2 0475 816      SUBL2 #DSC$C_S_BLN,SP
          51 5E D0 0478 817      MOVL SP,R1      ; R1 = address of descriptor
          04 AC D0 047B 818      MOVL BUF_DISP(AP),DSC$A_POINTER(R1); string address
          61 0C AC B0 0480 819      MOVW LEN_DISP(AP),DSC$W_LENGTH(R1); string length
          0484 820      ;
          0484 821      ; Convert the value
          0484 822      ;
          00 DD 0484 823      PUSHL #0      ; zero digits in fraction
          08 AC DD 0486 824      PUSHL VAR_DISP(AP) ; variable address
          51 DD 0489 825      PUSHL R1      ; descriptor address
00000000'GF 03 FB 048B 826      CALLS #3,G^FOR$CNV_IN_DEFG
          04 0492 827      RET
          0493 828      ;
          0493 829      ;
          0493 830      ;
          0493 831      ; .END

```



PASSIO\_INPUT  
Symbol table

; PASCAL RMS linkage

H 16

16-SEP-1984 02:07:22 VAX/VMS Macro V04-00  
5-SEP-1984 02:32:14 [PASCAL.SRC]PASIO2.MAR;1

Page 17  
(1)

AA	= 00000041		
AA_SMALL	= 00000061		
ADDR	= FFFFFFFC		
BUF_DISP	= 00000004		
CLASS	= FFFFFFFA		
DD	= 00000044		
DOLLAR	= 00000024		
DSCSA_POINTER	= 00000004		
DSCSC_S_BLN	= 00000008		
DSCSW_LENGTH	= 00C00000		
EE	= 00000045		
EIGHT	= 00000038		
FABS_B_FNS	= 00000034		
FABS_L_FNA	= 0000002C		
FORSCNV_IN_DEFG	*****	X	00
FSBSC_BLN	= 00000018		
FSBSL_LST	= 00000008		
FSBSL_STA	= 00000004		
FSBSV_ACTIN	= 0000000B		
FSBSV_EOLN	= 00000002		
FSB_DISP	= 00000004		
LENGTH	= FFFFFFFF		
LEN_DISP	= 0000000C		
MAXTO	= 0CCCCCCC		
MAXNAM	= 0000001F		
MAXNEG	= 80000000		
MAX_DISP	= 00000010		
MINUS	= 0000002D		
NAMELEN	= 00000020		
NAM_DISP	= 0000000C		
NINE	= 00000039		
OTSSCVT_T1_L	*****	X	00
PASSACTOALGET	*****	X	00
PASSBLANK_R3	*****	X	00
PASSCNV_IN_DEFG	00000473	RG	02
PASSGETBIN	00000000	RG	02
PASSGETTXT	0000001A	RG	02
PASSIOERROR	*****	X	00
PASSREADCHAR	0000004C	RG	02
PASSREADDOUB	000003B2	RG	02
PASSREADINT	00000247	RG	02
PASSREADLN	00000031	RG	02
PASSREADOK	*****	X	00
PASSREADREAL	000002F4	RG	02
PASSREADSCAL	000001A3	RG	02
PASSREADSTR	0000006C	RG	02
PASSSTATUSUPDAT	*****	X	00
PLUS	= 0000002B		
POINT	= 0000002E		
RABS_B_RAC	= 0000001E		
RABSC_BLN	= 00000044		
RABSC_SEQ	= 00000000		
RESULT	= FFFFFFFF		
SCALTRANSTABLE	000000A4	R	02
SCA_DISP	= 00000008		
SPACE	= 00000020		
STR_DISP	= 00000008		

UNDERSCORE	= 0000005F
VAR_DISP	= 00000008
ZERO	= 00000030
ZZ	= 0000005A
ZZ_SMALL	= 0000007A



+-----+  
! Psect synopsis !  
+-----+

PSECT name	Allocation	PSECT No.	Attributes
ABS	00000000 ( 0.)	00 ( 0.)	NOPIC USR CON ABS LCL NOSHR NOEXE NORD NOWRT NOVEC BYTE
\$ABSS	00000000 ( 0.)	01 ( 1.)	NOPIC USR CON ABS LCL NOSHR EXE RD WRT NOVEC BYTE
_PASSCODE	00000493 ( 1171.)	02 ( 2.)	PIC USR CON REL LCL SHR EXE RD NOWRT NOVEC BYTE

+-----+  
! Performance indicators !  
+-----+

Phase	Page faults	CPU Time	Elapsed Time
Initialization	32	00:00:00.08	00:00:00.64
Command processing	106	00:00:00.47	00:00:02.21
Pass 1	206	00:00:05.52	00:00:11.91
Symbol table sort	0	00:00:00.60	00:00:00.61
Pass 2	153	00:00:02.10	00:00:04.85
Symbol table output	8	00:00:00.07	00:00:00.09
Psect synopsis output	2	00:00:00.03	00:00:00.03
Cross-reference output	0	00:00:00.00	00:00:00.00
Assembler run totals	510	00:00:08.90	00:00:20.36

The working set limit was 1200 pages.

34227 bytes (67 pages) of virtual memory were used to buffer the intermediate code.

There were 30 pages of symbol table space allocated to hold 484 non-local and 35 local symbols.

831 source lines were read in Pass 1, producing 40 object records in Pass 2.

10 pages of virtual memory were used to define 9 macros.

+-----+  
! Macro library statistics !  
+-----+

Macro library name	Macros defined
_\$255\$DUA28:[SYSLIB]STARLET.MLB;2	6

497 GETS were required to define 6 macros.

There were no errors, warnings or information messages.

MACRO/DISABLE=TRACE/LIS=LIS\$:PASIO2/OBJ=OBJ\$:PASIO2 MSRC\$:PASIO2/UPDATE=(ENH\$:PASIO2)



0292 AH-BT13A-SE  
VAX/VMS V4.0

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